Flight Tracker Consortium Meeting

December 6, 2023

EDGE FOR SCHOLARS

www.edgeforscholars.org

@EdgeForScholars

https://redcap.link/flight_tracker

Meeting Agenda

FLIGHT TRACKER for scholars

Current Version:
v6.3.0

What's New?

Search PubMed for a Scholar's Missing Institutions
Revising the Overnight Processing & Data Sharing
Bridge Awards

Deep Dive: Slicing & Dicing Data with Cohorts

What's Next?

Holiday Projects
January is National Mentoring Month

Office Hours with Rebecca & Scott

FLIGHT TRACKER for scholars

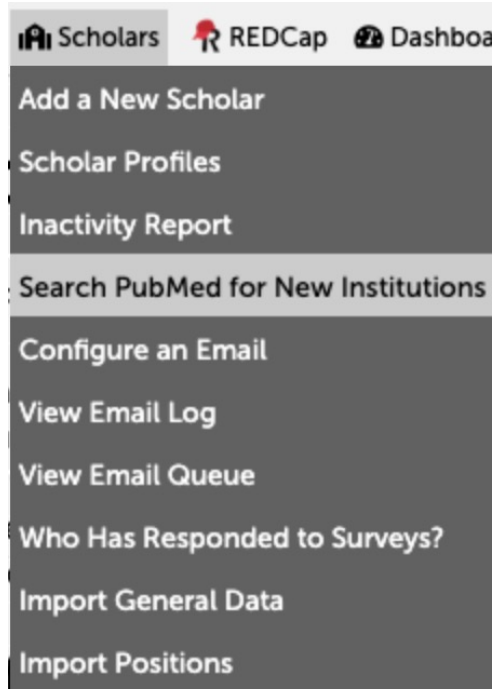
What's New?

Institution Matching

- Flight Tracker matches its grants, patents, and publications by name and institution
- Advantage: Avoiding false positives
- Advantage: Tracking scholars longitudinally after they leave
- Disadvantage: Must keep up with scholars' careers
- Disadvantage: LinkedIn's API is too expensive to auto-pull data
- Question: **How can we keep track of institutions better?**

Looking on PubMed…

- Scholars menu → Search PubMed for New Institutions – **v6.1.0 and higher**
- Looks for institutions for your scholars' names that you don't have
- Can pick up bad naming matches – e.g., UCSF vs. University of California San Francisco
- Looks in PubMed publications for last X months
- Some false positives; you can research & decide
- If you're ok with it, creates the REDCap Position Change form for you



Looking on PubMed...

FLIGHT TRACKER for scholars

Live Demo

Looking for New Institutions on Publications After December 1, 2022

Scholar Name	Citation	Publication Date	Current Institutions	Matched Authors	Matched Institutions
Record 5: Robert E. Wood 1 new matches	Wood RE, Gardner T. Forensic odontology in DVI-A path forward. J Forensic Sci. 2023 November 06. PubMed	11-06-2023	• Cincinnati Children's Hospital Medical Center • Cincinnati Children'	Wood RE	**Is this the right institution?** Ontario Forensic Pathology Service and Office of the Chief Coroner for Ontario, Toronto, Ontario, Canada. Shorten to institution name: Ontario Forensic Pathology Service and Office of the Chief Coroner for Ontario, Toronto, Ontario, Canada. Add to REDCap Record
Show 2 Publications for Record 6: Robert W. Mahley. Last Confirmed Publication Date: 07-01-2016.					
Show 2 Publications for Record 81: David Poon. No Confirmed Publications.					
Show 2 Publications for Record 130: Joyce Ou. Last Confirmed Publication Date: 09-01-2015.					
Show 3 Publications for Record 132: Michael T. Wilson. No Confirmed Publications.					

Looking for Institutions

FLIGHT TRACKER for scholars

- Considering adding a similar scan for NIH RePORTER
- Not as high of a priority as PubMed because of less data

NIH RePORT > RePORTER

Overnight Processing Updates

- Batched error alerts in case of multiple emails
- Quicker weekly data-sharing algorithm: 28 hours → 5 hours
- Quicker loading batch queue to monitor General menu → Batch Queue

- Unplanned: Triggered by high number of Vanderbilt scholars tracked – 5,953

Bridge Awards

FLIGHT TRACKER for scholars

- K99/R00 award type has been renamed “Bridge Award”
- Now includes F99/K00 awards too [**v6.3.0 & higher**]
- Predoc → Postdoc Transition Award
- Seen in Career-Defining Awards

FLIGHT TRACKER for scholars

Deep Dive

Slicing & Dicing Data with Cohorts

Overview

FLIGHT TRACKER for scholars

- What is a Cohort?
- Making a Cohort
  - Adding a Cohort
  - New-ish: Person Roles
  - Hand-Picking a Cohort
- Uses of Cohorts
  - Grants Metrics
  - Equity of Outcomes
  - Highlight Group Successes
  - Cohort Projects: Sharing

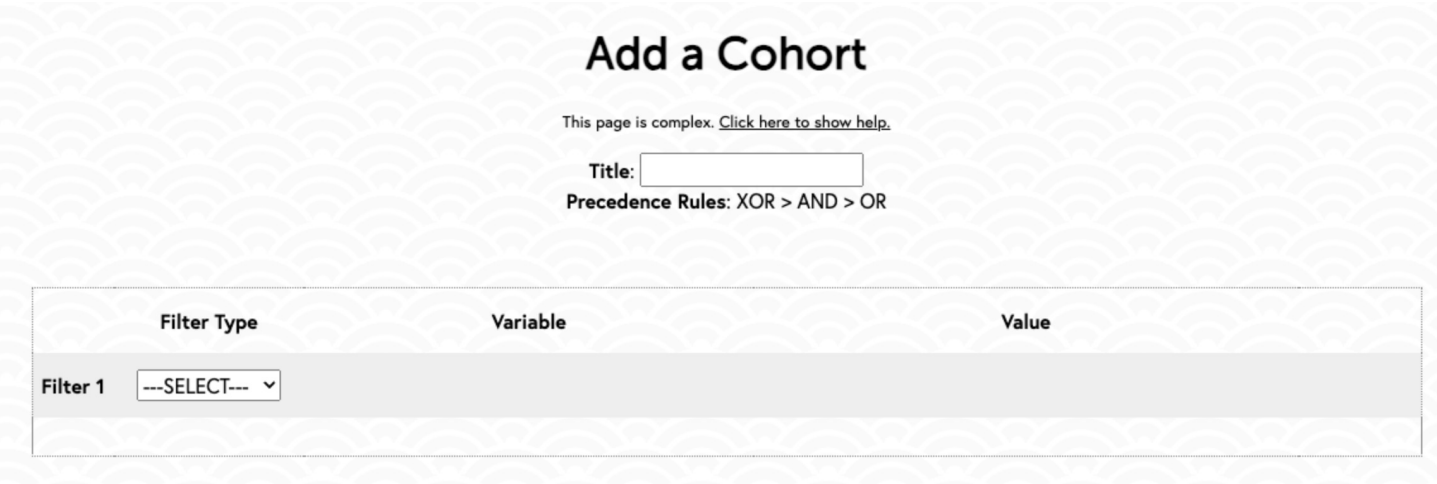
What is a Cohort?

FLIGHT TRACKER for scholars

- For Flight Tracker, Cohort = Sub-Group = Filter
- Definition: A group of scholars, smaller than the entire group, that displays certain characteristics
- “How is this segment of scholars being affected?”
- Cohorts/Filtering has its own Flight Tracker menu
- Any graph or metric in Flight Tracker has a way to restrict its analysis to a given cohort
- Does **not** apply to REDCap reports

Adding a Cohort

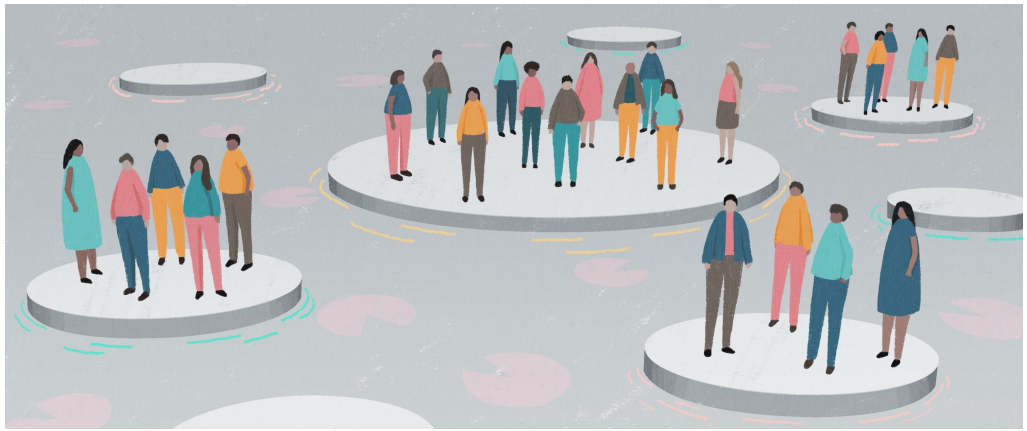
- Cohorts/Filtering menu → Add/Modify a Cohort
- Title your cohort to identify throughout Flight Tracker
- Add multiple filters and combine them with Boolean logic
  - XOR [“Exclusive Or” – one or the other but not both]
  - AND
  - OR



Cohort Filter Types

FLIGHT TRACKER for scholars

- Demographic – most common & most extensive
- Grant – type, activity code, NIH institute, dates
- Publication – least helpful in my experience but available
- Resources – helpful to analyze things like workshops and pilot funding if you keep track of these



Demographic Categories

Taken from Summary & Identifiers Forms

- Gender
- Race/Ethnicity
- Primary Department
- Current Academic Division
- Date of Birth
- Academic Degrees
- Citizenship
- URM Status
- Disability Status
- Disadvantaged Status
- Start of Training Program
- End of Training Program
- Did Not Complete Program
- Recorded Tenure Status
- Current Academic Rank
- Person Role [*see later slide]
- Employment Status
- Email Domain

Grant Categories

- Award Type [Any]
  Flight Tracker Types: [Internal K, K12/KL2, Individual K, K Equivalent, R01, R01 Equivalent, …]
- K→R Conversion Status
- First Award Type
  Flight Tracker Types
- First Award Sponsor Number
- Any Award Sponsor Number
- Activity Code [Any]
- Institute/Center Abbreviation [Any]
- Start of First Training Grant
- End of Last Training Grant
- First Any K Date
- Last Any K Date
- First R01 or Equivalent Date

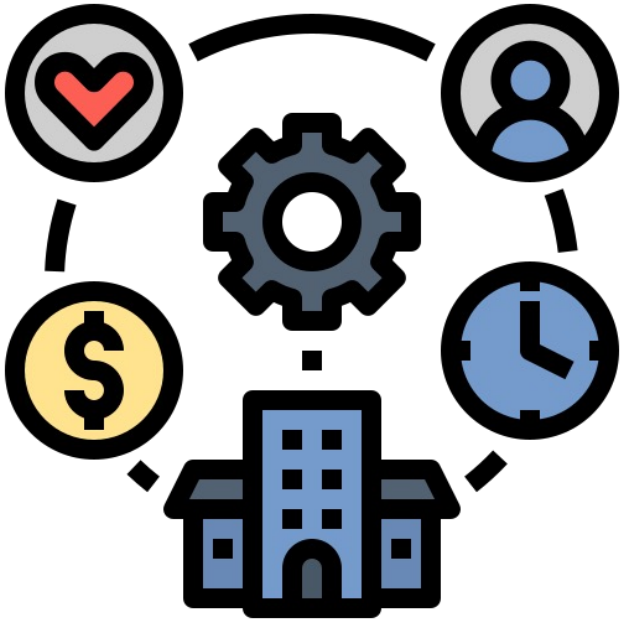
Publication Categories

FLIGHT TRACKER for scholars

If a scholar has 1+ wrangled publications with the trait, then they're included in the cohort:

- Publication Category
- Number of Research Articles
  [iCite specifies as "Original Research" articles]
- Number of Research Articles from Date
- Scholars with Relative Citation Ratio
- Scholars with Publication Type
- Scholars with MeSH Term

Resource Categories



- [Choose from a list of resources]
- Include attendees of a workshop or users of a resource in the cohort
- Keep track of them manually via Resources menu
- Use to analyze effectiveness [Return on Investment]

Person Roles

FLIGHT TRACKER for scholars

- A new-ish feature in Flight Tracker; deliberately vague name
- Configured in the General menu → Configure Application page
- **When configured, adds a dropdown field to the Identifiers form**
- Choices on dropdown are whatever you configure
- List is made with one entry per line
- **→ Can be used to create a cohort**
- For example:
  - Faculty, Staff, Student
  - Class of 2020, Class of 2021, Class of 2022, …

Mix & Match to Customize!

FLIGHT TRACKER for scholars

- Boolean logic connects: XOR, AND, OR
- Processed in order of XOR first, then AND, then OR

	Filter Type	Variable		Value	
Filter 1	Demographic	Academic Degrees	Has	MD only	Add Row
		AND			
Filter 2	Grant	Conversion Status	Has	Still on K; No R01-or-Equ	Add Row
		OR			
Filter 3	Demographic	Academic Degrees	Has	MD + PhD	Add Row
		AND			
Filter 4	Grant	Conversion Status	Has	Still on K; No R01-or-Equ	Add Row
		OR			
Filter 5	Demographic	Academic Degrees	Has	MD + other	Add Row
		AND			
Filter 6	Grant	Conversion Status	Has	Still on K; No R01-or-Equ	Add Row
		OR			
Filter 7	Demographic	Academic Degrees	Does Not Have	PhD	Add Row

Hand-Picking a Cohort

FLIGHT TRACKER for scholars

- Normally, cohorts are automatically and dynamically managed
- Sometimes, you just want to hand-pick a group of people
- Hand-Pick a Cohort page
- Alphabetized list of names with checkboxes

Hand-Pick a Cohort

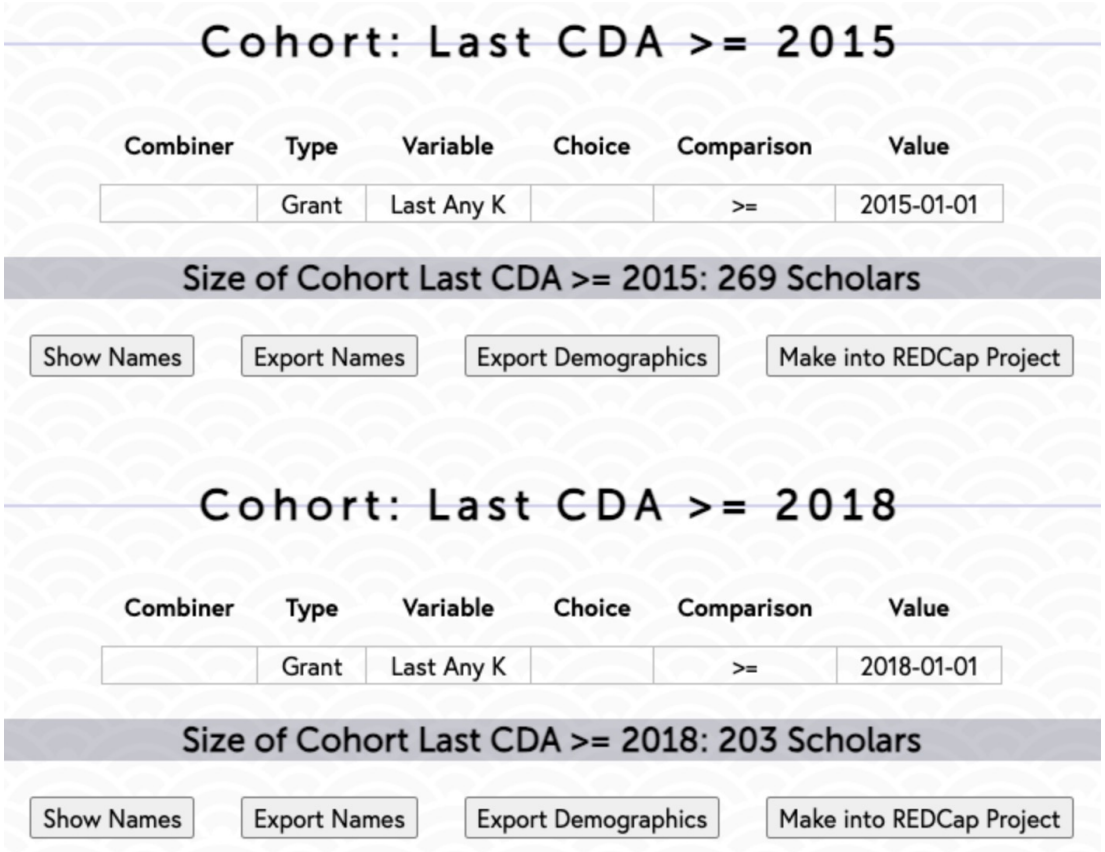
Cohort Name:

Add Cohort

- 1: Khaled A Abdel-Kader
- 2: Ty W Abel
- 3: Robert L Abraham
- 365: Aaron W Aday
- 513: Fatemeh Adelnia
- 456: Rajiv Agarwal
- 493: Vineet Agrawal
- 335: Aimalohi A Ahonkhai
- 480: Kimberly Albert
- 4: Melinda C Aldrich
- 452: Matthew R Alexander
- 443: Ryan Allen
- 5: Peggi M Angel
- 427: James W Antoon
- 476: Derek Archer
- 6: Amy C Arnold
- 7: Donald H Arnold
- 8: Shanna A Arnold
- 539: Juan Pablo Arroyo Ornelas
- 9: Carolyn M Audet

Viewing Cohorts

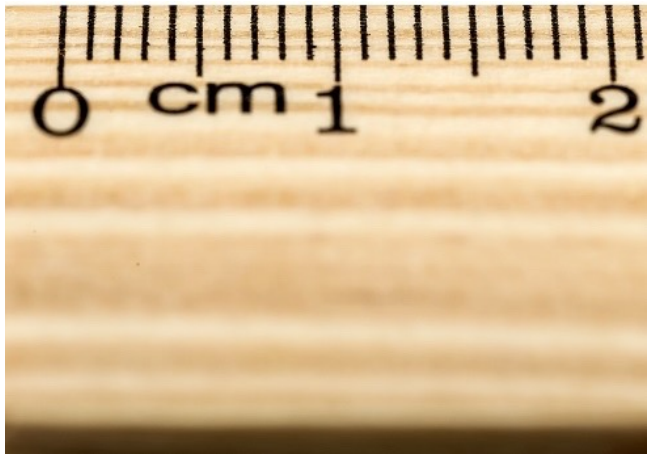
- View Existing Cohorts page
- For each cohort:
  - See membership count
  - Show names
  - Export names
  - Export demographics
  - Make into a REDCap Project [*see later slide about Cohort Projects]



Grant Metrics

FLIGHT TRACKER for scholars

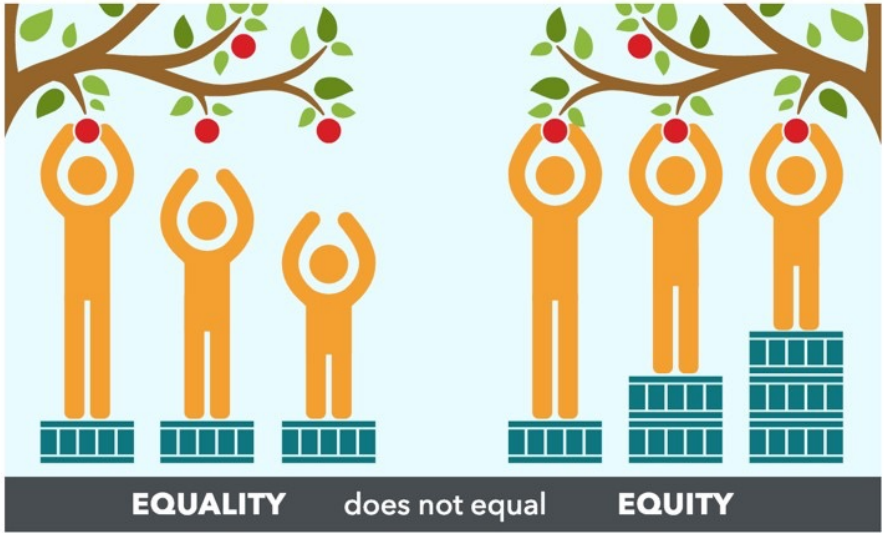
- We keep internal funding in Custom Grants
- We name each grant's number by the mechanism
  - Multiple mechanisms
  - For example: VFRS, VCTRS
- Shared in one large Flight Tracker pool
- Each grant mechanism forms a cohort: Sponsor award number
- Can quickly pull up metrics to advertise grant
  - K→R conversion rate
  - Number of scholars over time



Equity of Outcomes

FLIGHT TRACKER for scholars

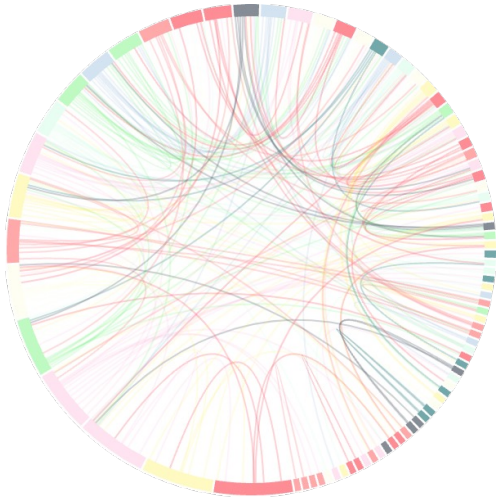
- Diversity, Equity & Inclusion strategies are hot topics in higher education these days
- How can you tell if historically underprivileged groups are achieving equal outcomes?
- Form cohorts & compare
- Can monitor data over time to see if your interventions are achieving a more equitable playing field
- View menu → Demographics Table helps alongside Dashboards menu

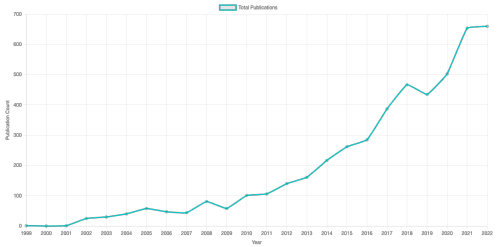


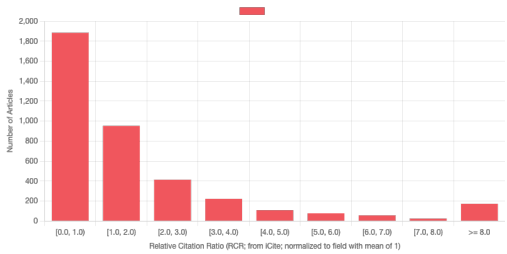
Highlight Group Successes

FLIGHT TRACKER for scholars

- Hand-pick a cohort or pick a cohort by trait
- Share data that show group achievement
- Emphasize individual contributions to entire group → motivation
- For example:
  - Co-authorship network
  - Bar graph of impact factors
  - Word cloud of publications
  - Number of publications by year







Cohort Projects: Sharing

FLIGHT TRACKER for scholars

- Create a **read-only copy project** of a cohort's information
  - Updated weekly
  - Cohort project's data are overwritten weekly
- Centralizes data wrangling to central project
  - Alleviates need for all to learn to maintain Flight Tracker
- Read-only project can only see their cohort's data
  - Prevents snooping on others & potential rivalries

Cohort Projects: Pragmatics

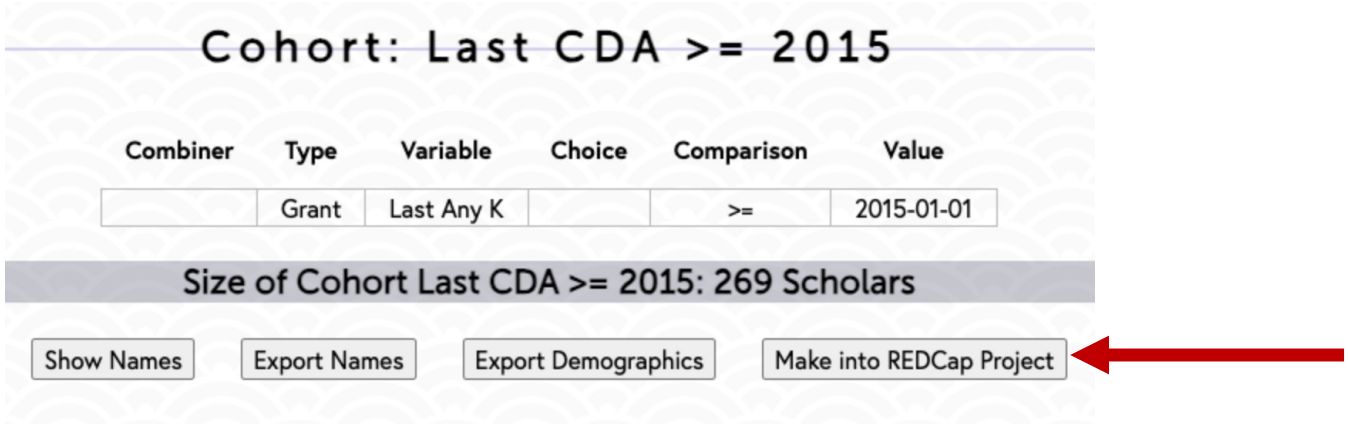
FLIGHT TRACKER for scholars

- **Use cases:**
  - Divisions in Department of Medicine [Pulmonary, Cardiology, Heme/Onc, etc.]
  - Sub-Grants under one large grant [U01 award]
- **Limitation:** Must get a REDCap Supertoken to create projects
  - 64 characters – not API token [32 characters]
  - REDCap teams are often hesitant to provide because of security risk
    - **Mitigation**: Get them to do it for you; then remove the supertoken
  - I can help make your case, but it's the local team's decision

Cohort Projects: Steps to Create

FLIGHT TRACKER for scholars

1. Enter the Supertoken into Configure Application page
2. Go to Cohorts menu → View Existing Cohorts
3. Under the cohort, click Make into REDCap Project
4. It'll create the REDCap project for you
5. It'll automatically update each week overnight



Summary

FLIGHT TRACKER for scholars

- What is a Cohort?
- Making a Cohort
  - Adding a Cohort
  - Person Roles
  - Hand-Picking a Cohort
- Uses of Cohorts
  - Grants Metrics
  - Equity of Outcomes
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  - Cohort Projects: Sharing

Next Month: Crowdsourcing Implementation

FLIGHT TRACKER for scholars

- U Texas-Southwestern is just starting with Flight Tracker and wants to use it institution-wide
- They sought implementation advice from our team, but I thought this topic would be a great, broader conversation for a Deep Dive
- They will bring questions next month, but I want **everyone** to be engaged in this conversation!

Upcoming Deep Dives

FLIGHT TRACKER for scholars

January: Crowdsourcing Implementation

February: Tricks of Publication Wrangling

March: Maximizing Value on a New Project

FLIGHT TRACKER for scholars

What's Next?

Holiday Projects

This month, I got pulled into projects and did not complete what I wanted to. But the holidays are coming, and that means more time for focused work!

- Relating Grants with Publications
- Honors & Awards Survey
- Streamlined Mentee-Mentor Agreements
- Piloting an MSTP-specific version of Flight Tracker at Vanderbilt
  - Custom Individual Development Plans
  - Custom Mentee-Mentor Agreements
  - Will form a committee to refine before launch – let me know if someone at your place is interested

National Mentoring Month

- Coming: **January** is National Mentoring Month
- On January's call, we plan to highlight how to advance mentoring with Flight Tracker
- You might want to consider activities with your group:
  - January 9 – **I am a Mentor Day**
  - January 15 – **MLK Day of Service**
  - January 17 – **International Mentoring Day**
  - January 21 – **Thank Your Mentor Day**

https://www.mentoring.org/campaigns/national-mentoring-month/

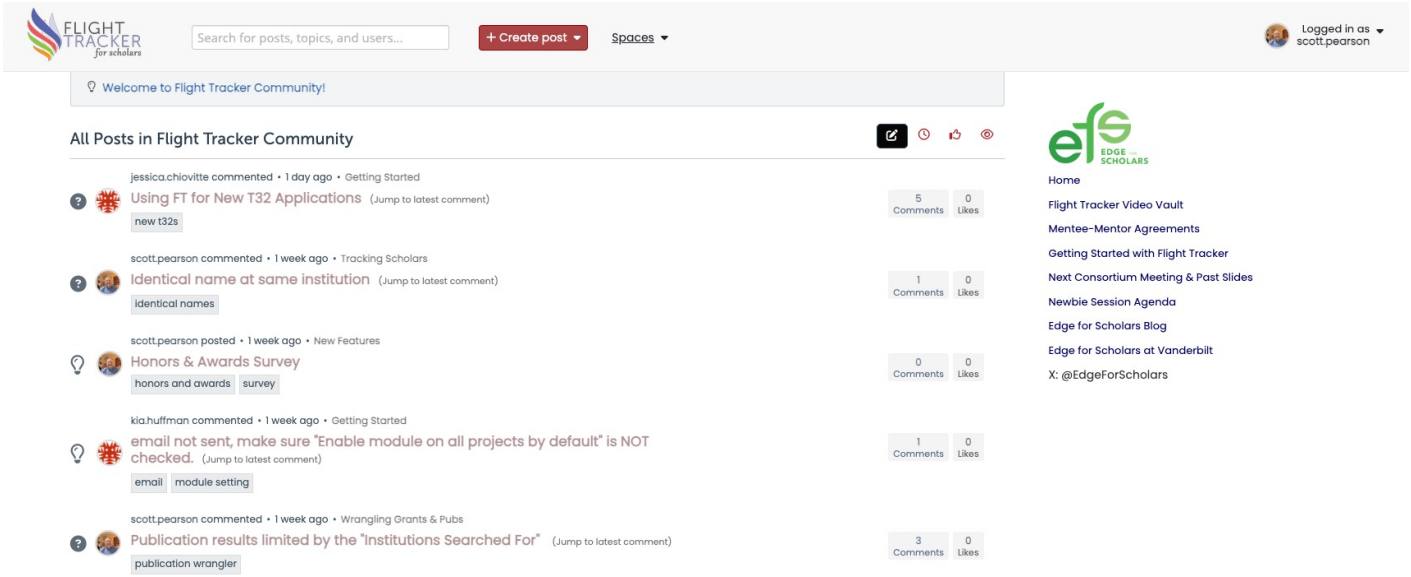
X: Follow @EdgeForScholars for mentoring content

Flight Tracker Community

Support Forum

"Better than Email" - Ask me for an Account in the Chat

https://redcap.vanderbilt.edu/flighttracker/



Troubleshooting Call

FLIGHT TRACKER for scholars

Monthly Troubleshooting Call – optional

Third Wednesday at 1pm Central Time
December 20, 2023

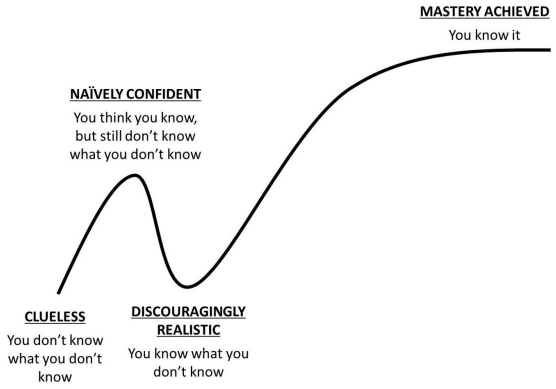
Driven by Your Questions & Problems
All are welcome!

Ask to join our email list in the chat for an invitation…

Newbie Call

FLIGHT TRACKER for scholars

Just getting started with Flight Tracker?



There's a definite learning curve.

Move up more quickly by joining **December's "newbie" call**.

Tuesday, December 12, at noon Central Time

(Thursday, January 18, at 11am Central Time)

Leave your email in the chat to receive an invitation

Office Hours with Rebecca & Scott

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